

16208000 SOUTH FORK KAUKNAHUA STREAM AT EAST PUMP RESERVOIR, NEAR WAHIWA

LOCATION.--Lat 21°29'32", long 157°59'54", Old Hawaiian Datum, Hydrologic Unit 20060000, on left bank on upstream side of dam at East Pump Reservoir, 2.3 mi east of Wahiawa Post Office, and 7.1 mi north of Waipahu.

DRAINAGE AREA.--4.04 mi².

PERIOD OF RECORD.--July 1957 to June 1963, water years 1963-64 (annual maximum), July 1964 to September 2004 (discontinued).

GAGE.--Water-stage recorder and Ogee-type dam control. Datum of gage is 860.35 ft above mean sea level (from U.S. Coast and Geodetic Survey trig station).

REMARKS.--Records computed by H.A. Jeppesen. Records good except for estimated days which are poor. Prior to 1960, water was diverted from reservoirs upstream of station for use at Schofield Barracks.

AVERAGE DISCHARGE.--42 years (water years 1961-62, 1965-2004), 21.0 ft³/s (15,190 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,460 ft³/s, April 15, 1963, gage height, 11.33 ft, from rating curve extended above 1,100 ft³/s on basis of computation of peak flow over dam; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 29	2030	1,730	6.15				
Dec 7	2215	*2,550	*7.43	Aug 4	0730	1,750	6.19
Dec 7	unknown	e1,260	e5.33				

Minimum discharge, 1.6 ft³/s, Nov. 11, gage height, 1.28 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	2.0	52	e100	e26	e9.1	28	8.2	13	43	6.3	8.0
2	4.7	2.0	27	245	e10	e65	37	7.6	10	39	38	9.9
3	6.7	4.6	20	112	e7.6	e11	89	7.1	11	25	44	7.6
4	6.3	12	67	25	e20	e24	62	23	8.1	21	459	7.5
5	5.5	17	196	17	e50	e12	27	23	11	24	36	6.3
6	5.5	15	122	13	e25	e7.2	21	92	8.0	27	19	17
7	9.1	6.1	590	11	e210	e11	20	45	7.6	18	31	6.8
8	23	18	157	10	e60	e30	17	16	31	23	18	5.5
9	48	4.5	79	8.9	e16	e9.2	22	11	53	18	15	11
10	6.3	2.3	122	7.8	e11	e7.4	110	9.2	66	16	16	17
11	4.2	1.9	87	7.0	e9.2	e6.9	28	67	55	32	36	7.4
12	20	2.4	39	7.0	e7.9	e9.4	48	68	33	36	26	20
13	11	3.9	44	6.4	e6.9	e23	35	14	24	44	16	8.9
14	51	22	33	16	e6.2	e28	18	18	21	20	17	15
15	e22	29	25	11	e5.7	e8.1	58	39	14	17	12	7.3
16	e12	15	21	e3.9	e5.2	e6.0	70	24	14	15	11	5.5
17	e6.3	21	18	e3.3	e4.8	e5.5	23	12	35	14	9.9	6.1
18	e5.6	33	16	e3.0	e4.3	6.5	17	10	15	12	9.2	7.9
19	e4.1	29	14	e3.0	e4.0	5.7	16	8.9	27	11	7.9	18
20	e3.4	9.9	12	e4.3	e3.8	7.6	19	8.4	54	10	7.2	11
21	e2.9	6.4	11	e3.8	e3.6	235	28	7.6	25	9.3	14	10
22	e2.7	5.6	10	e30	e3.3	347	23	6.8	39	8.7	11	17
23	e2.6	5.5	9.5	e17	e15	157	17	6.7	65	8.3	10	43
24	e2.6	5.7	8.9	e5.5	e4.8	57	27	6.2	32	7.8	26	32
25	e2.4	4.7	8.2	e60	e7.6	77	13	13	21	8.8	15	28
26	e2.2	3.8	7.5	e41	e19	47	45	9.8	19	11	25	19
27	e2.1	3.2	7.1	e13	e184	31	16	13	18	14	25	13
28	e1.9	2.8	7.5	e6.5	e24	25	11	32	43	13	16	12
29	2.4	413	6.8	e9.5	e9.7	162	9.7	14	32	8.5	22	17
30	2.2	209	e9.0	e44	---	190	8.8	18	37	6.7	12	50
31	2.1	---	e20	e24	---	38	---	38	---	7.3	9.5	---
TOTAL	285.5	910.3	1,846.5	868.9	764.6	1,658.6	963.5	676.5	841.7	568.4	1,020.0	444.7
MEAN	9.21	30.3	59.6	28.0	26.4	53.5	32.1	21.8	28.1	18.3	32.9	14.8
MAX	51	413	590	245	210	347	110	92	66	44	459	50
MIN	1.9	1.9	6.8	3.0	3.3	5.5	8.8	6.2	7.6	6.7	6.3	5.5
AC-FT	566	1,810	3,660	1,720	1,520	3,290	1,910	1,340	1,670	1,130	2,020	882

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2004, BY WATER YEAR (WY)

MEAN	16.8	27.1	22.4	20.2	16.4	25.6	29.1	20.5	17.1	25.0	18.3	14.5
MAX	38.0	107	61.7	55.2	99.7	104	90.1	64.9	46.1	60.9	53.7	35.7
(WY)	(1967)	(1966)	(1988)	(1989)	(1969)	(1980)	(1963)	(1963)	(1987)	(1989)	(1967)	(1990)
MIN	0.32	3.54	2.07	0.38	0.11	0.66	2.45	0.51	3.40	4.25	3.04	1.43
(WY)	(1985)	(1963)	(1990)	(1986)	(1986)	(1983)	(1992)	(1992)	(1968)	(1968)	(1971)	(1975)

HAWAII, ISLAND OF OAHU

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1961 - 2004
ANNUAL TOTAL	5,782.56	10,849.2	
ANNUAL MEAN	15.8	29.6	21.0
HIGHEST ANNUAL MEAN			37.2
LOWEST ANNUAL MEAN			9.12
HIGHEST DAILY MEAN	590	Dec 7	1,050
LOWEST DAILY MEAN	0.00	Feb 13	0.00
ANNUAL SEVEN-DAY MINIMUM	0.15	Feb 7	0.00
ANNUAL RUNOFF (AC-FT)	11,470	21,520	15,190
10 PERCENT EXCEEDS	26	56	47
50 PERCENT EXCEEDS	5.4	14	8.9
90 PERCENT EXCEEDS	0.69	4.7	1.8

e Estimated